SERVICE MANUAL & PARTS LIST (without price)

NX-4000/6000

SEP. 1995

NX-6000

INDEX

CASIO®

CONTENTS

FEATURES 1
SPECIFICATIONS 2
BATTERY REPLACEMENT 4
REPLACING THE BACK-UP BATTERY 4
RESET OPERATION 5
TO SAVE THE DATA TO ANOTHER UNIT 6
BLOCK DIAGRAM 8
TOUCH PANEL CIRCUIT 9
PIN FUNCTION 10
DIAGNOSTIC PROGRAM 11
MESSAGE TABLE 15
SCHEMATIC DIAGRAMS 17
PARTS LIST 21
EXPLODED VIEW 24

FEATURES

• Pen-based graphic user interface
Simply tap on display icons and buttons to perform any operation.

• Color display
The display shows data in three colors: orange, blue, and green. Different colors can be used to highlight specific dates in the Calendar.

• Desktop Menu System
Functions are represented by realistic icons that are arranged on a desk in your virtual office. Simple tap on the icon that represents a function to access it.

• 256 kbytes (NX-6000) / 128 kbytes (NX-4000) of memory
You get enough memory to store up to 11,100 (NX-6000) / 5,200 (NX-4000) Telephone Directory items.

• Powerful data bank functions
Telephone Directory, Business Card Directory, Memo, Sketch, To Do, Expense Manager, Reminder, and Schedule Keeper are at your fingertips throughout the day.

• Secret Drawer
A convenient place to lock up confidential information using a secret password.

• Calendar - Schedule Keeper - Reminder - To Do linking
Reminder and To Do items are automatically displayed in the applicable Schedule Keeper dates. Markers appear on the Calender display to indicate dates for which Schedule Keeper, Reminder, and To Do items are scheduled.

• Timepiece with Home Time and World Time
Dual timekeeping lets you keep track of the current time in two different locations.

• Powerful alarm functions
In addition to the standard daily alarm, you can also set alarms for Schedule Keeper, Reminder, and To Do items.

• Calculator
A 12-digit arithmetic calculator is just the thing for those quick, on-the-go calculations.

• Data Communication
Exchange data with another NX Unit or with a CASIO SF Unit/CSF Unit.

SPECIFICATIONS

Storage Capacity

The 256K (NX-6000) / 128K (NX-4000) bytes memory capacity includes a 245,709 / 114,637-byte user area. The following shows examples of what this means for the storage of data in each mode.

Telephone Directory

Approximately 11,100 / 5,200, under the following conditions:
- 8-character name
- 10-character telephone number

Approximately 5,700 / 2,600, under the following conditions:
- 8-character name
- 10-character telephone number
- 20-character address

Business Card Directory

Approximately 2,900 / 1,300, under the following conditions:
- 10-character employer name
- 8-character personal name
- 10-character telephone number
- 10-character position
- 10-character department
- 20-character address

Memo

Approximately 10,600 / 4,900, 20-character memos.

Sketch

Approximately 160 / 80
- The number of sketch pages that can be stored varies greatly according to the amount of data included on each sketch page.

To Do

Approximately 6,100 / 2,800, under the following conditions:
- 20-character description
- Illustration used
- Deadline set

Schedule Keeper

Approximately 6,300 / 2,900, under the following conditions:
- 20-character description
- Illustration used
- Starting time specified, alarm time set
- No sketch page data

Approximately 3,100 / 1,400, under the following conditions:
- 20-character description
- Illustration not used
- Starting time specified, no alarm time
- One sketch page for every 30 text data items.

Reminder

Approximately 12,200 / 5,700, under the following conditions:
- 10-character description
- Illustration used
- Alarm time set

Approximately 14,400 / 6,700, under the following conditions:
- 10-character description
- Illustration not used
- No alarm time

Expense Manager

Approximately 7,400 / 3,400, under the following conditions:
- 10-character description
- Expense type and Payment type set

General:

Display element: 21-column × 8-line LCD

Memory capacity: 256 KB (NX-6000), 128 KB (NX-4000)

Main component: LSI

Power supply:
- Main: Two AAA-size batteries (Type: R03 (UM-4) or LR03 (AM4))
- Back-up: One CR2032 lithium battery

Battery life:
- Main: Approximately 110 hours continuous display in Telephone Directory (approximately 200 hours on type LR03 (AM4)); approximately 85 hours repeating one minute of input and 10 minutes of display in Telephone Directory (approximately 150 hours on type LR03 (AM4))
- Back-up: 5 years if main batteries are replaced as soon as they becomes weak. 2 year if dead main batteries are left in the unit.

Power consumption: 0.1 W

Auto power off: Approximately 6 minutes after last key operation

Operating temperature: 0°C ~ 40°C (32°F ~ 104°F)

Dimensions:
- Unfolded: 14.7 H × 81.9 W × 225 D mm ($^{9}/_{16}$" H × 3 $^{1}/_{4}$" W × 8 $^{7}/_{8}$" D)
- Folded: 15.4 H × 81.9 W × 124 D mm ($^{5}/_{8}$" H × 3 $^{1}/_{4}$ W × 4 $^{7}/_{8}$" D)

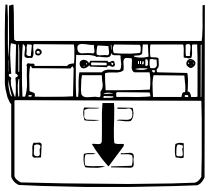
Weight: 148 g (5.2 oz) including batteries

Current consumption:
- Main Battery
  - ON (MENU): MAX = 3.7 mA, TYP = 3.2 mA
  - OFF: MAX = 35 μA, TYP = 24 μA
- Backup Battery
  - Back-up: MAX = 10 μA, TYP = 6.3 μA

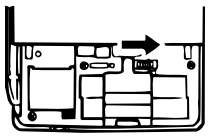
Voltage detection:
- Main battery: 2.5 V ± 2.5 % or below
- Forced OFF: 2.3 V ± 2.5 % or below
- Backup battery: 2.6 V ± 2.5 % or below

BATTERY REPLACEMENT

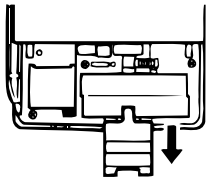
1. Switch power off.
2. Slide the battery compartment cover in the direction indicated by the arrow.



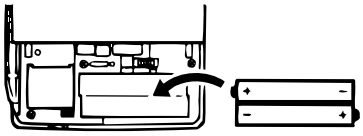
3. Slide the battery switch in the direction indicated by the arrow in the illustration.



4. Remove the main battery holder.



5. Remove both old batteries and replace them with two new ones.
   - Make sure that the positive (+) and negative (–) ends of the batteries are facing correctly.

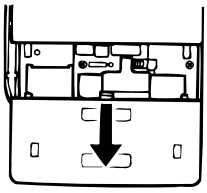


6. Replace the main battery holder, and slide the battery switch in the direction indicated by the arrow in the illustration.
7. Replace the battery compartment cover.
8. Turn on power.
   - The Home Time screen always appears whenever you turn power on for the first time after replacing main batteries.
9. Check the Home Time setting and make changes if necessary.

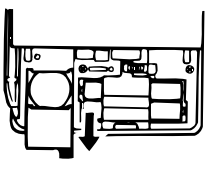
REPLACING THE BACK-UP BATTERY

Before replacing the back-up battery, note the following precautions:
- Do not remove the back-up battery from the NX Unit while the main batteries are removed.
- Be sure to replace the back-up battery at least once 2 years. Otherwise, you run the risk of losing data stored in memory.

1. Switch power OFF.
2. Slide the battery compartment cover in the direction indicated by the arrow.



3. Remove the screws that hold the back-up battery holder in place, and remove the holder.



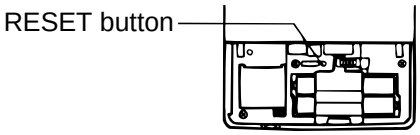
4. Remove the old battery and replace it with new one, making sure that the positive (+) side of the new battery is facing up (so you can see it).
5. Replace the back-up battery holder and secure it by tightening its screw.
   - Be careful that you do not over tighten the screw.
6. Replace the battery compartment cover.

RESET OPERATION

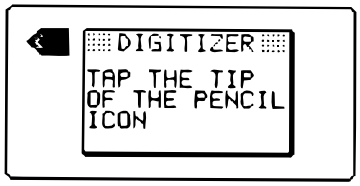
You can use either SECRET RESET or ALL RESET to initialize the NX Unit. ALL RESET deletes all data stored in memory, while SECRET RESET deletes only the data stored in the secret drawer.

To perform ALL RESET

1. Switch power ON.
2. Open the battery compartment cover.
3. Press the RESET button with a thin, pointed object.



   - At this time, the touch panel screen appears.



4. Tap the tip of the pencil icon as each one appears.
   - When you tap the fourth pencil icon, the RESET screen appears.

Warning!
The next step deletes all data stored in the NX Unit's memory. Make sure that you really want to delete the data before you continue!

5. Tap ALL RESET.

Note
   - The message “ALL RESET? OK/ESC” always appears in English, regardless of the system language setting.

6. Tap **OK** to reset the memory and delete all data or **ESC** to abort the reset operation without deleting anything.
   - After you tap **OK**, the system language screen appears.
7. Select the system language by tapping on the language you want to use, and then tap **OK**.
   - After you select the system language, the Home Time screen appears.
8. Check the Home Time setting and make any changes that you want.

Following the all reset operation, the NX Unit settings are initialized as noted below.

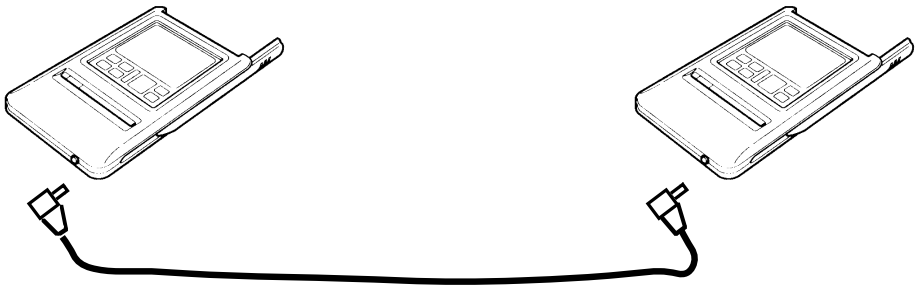
Home Time:	Washington, D.C. JAN/1/1996 MON 12:00 AM 12-hour format
World Time:	New York
Daily Alarm:	12:00 PM
Sound:	Schedule alarm, Reminder alarm and To Do alarm — ON Daily alarm — OFF Key input tone — ON
Input mode:	Overwrite

TO SAVE THE DATA TO ANOTHER UNIT

NX-4000/6000 can transfer customer's data to another NX-4000/6000 with memory protection only when replacing the LCD or the outer case.

How to transfer the data

1) Make sure that the power of both units is switched off.
2) Remove the covers from the data communications jacks on the two NX units.
3) Connect the two units using the SB-62 cable as shown in the figure below.



SB-62 cable

4) Turn the power switch of slave units on.
5) Reset the slave unit.
6) The slave unit must be set the date of Feb. 3rd, 1901 into the memory under the calculator mode.
   Operation : [ON] [AC] [1] [DATE] [2] [DATE] [3] [DATE] [M+]

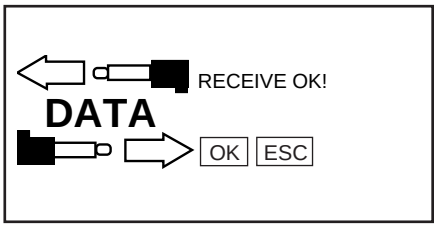
   If you don't set the date, the "PASSWORD" isn't transferred to the slave unit.

7) Check the hardware parameters, and if the both units have another condition, reset as follows;
   Operation : [MENU] [FUNC] [DATA COM.] [SET UP PAR.] [NONE] [7] [9600] [OK]

```
////////////  SET UP PAR. ////////////
PARITY      EVEN  ODD  NONE
BIT LENGT          7    8
BPS                4800 / 9600
```

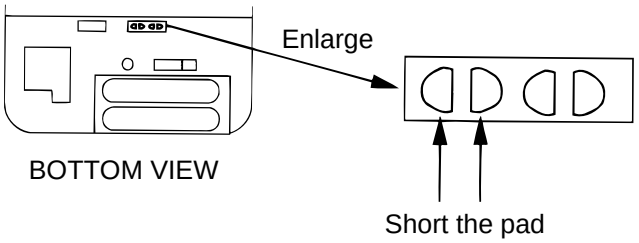
8) Set up the slave unit.

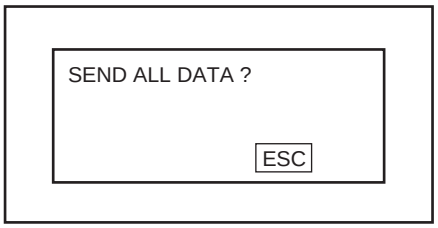
Operation : MENU FUNC DATA COM. RECEIVE



9) Set up the customer's unit.

- Turn the power switch off.
- Press the RESET button with a thin, pointed object while shorting the following pad.

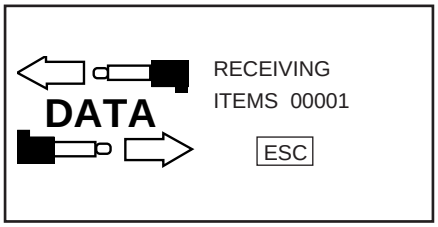




Note: Be careful not to reset the customer's unit. If “DIGITIZER” is displayed, turn the power switch off immediately, and try again.

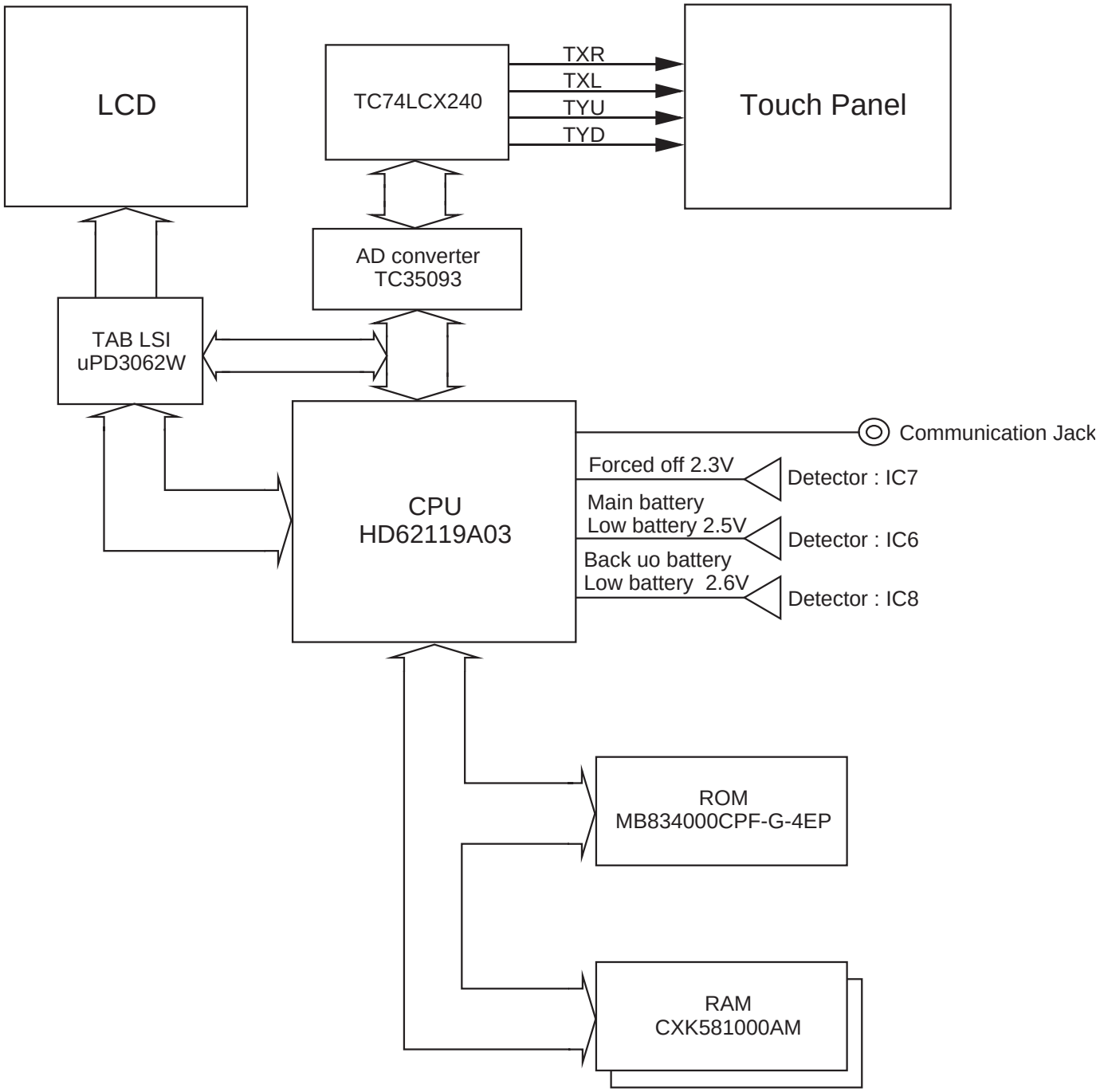
10) Start the data communication (slave unit).

Operation : OK



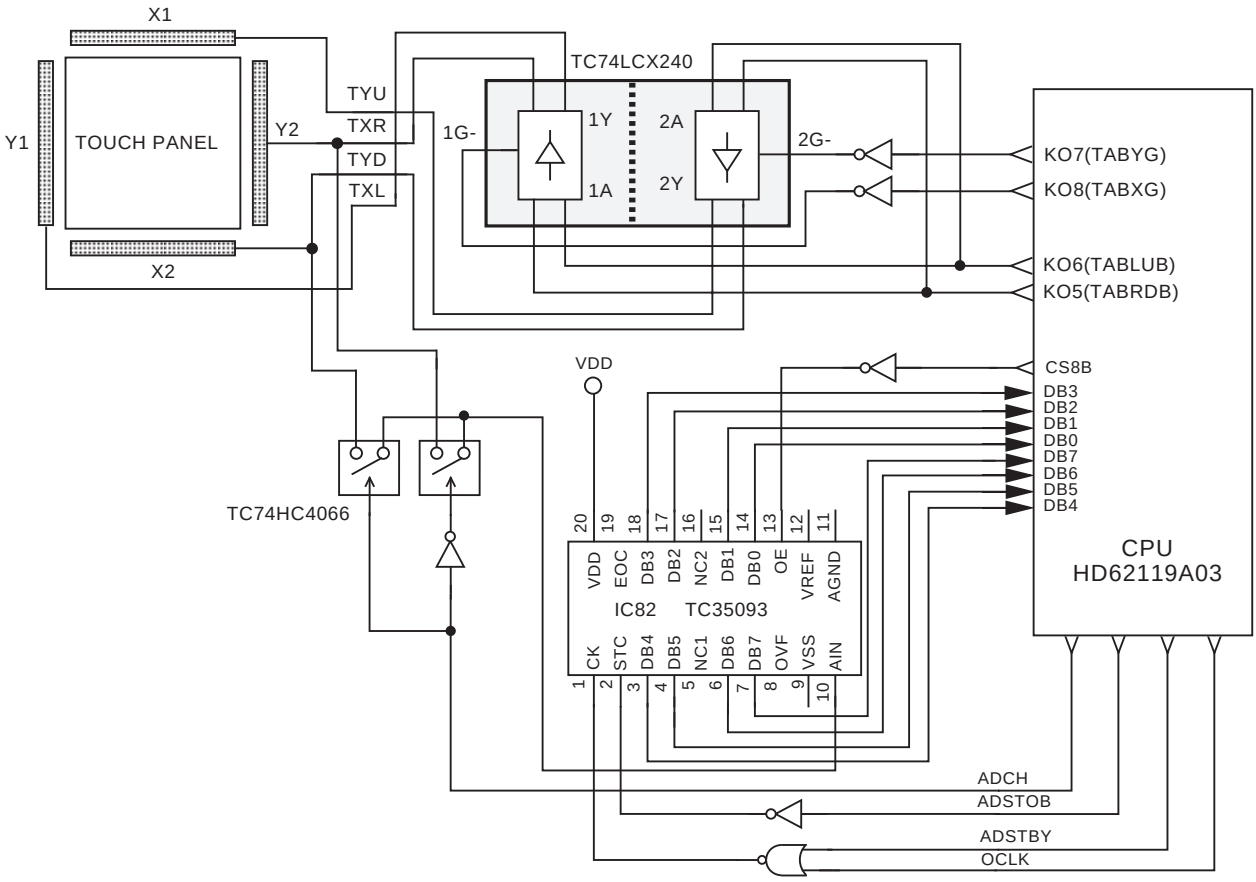
If you can not succeed to transfer the data, press ESC key on both unit and try to transfer the data again according to the above procedure.

BLOCK DIAGRAM



TOUCH PANEL CIRCUIT

Four electrodes are installed in top and bottom right and left of panel, and the touch panel recognizes the coordinate which was pushed with a pen on panel by detecting change volume of current which flowed through panel by pushing panel.



Circuit Operation

TXL and TYU of drive signals are sent through LS240 from CPU by X1,Y1 of touch panel when turn on power supply. And, TXR,TYD signals are output through LS240 from touch panel to AIN terminal of A/D converter TC35093, and convert the analog value into digital value, and TC35093 outputs digital data DB0~DB7 of 8 bits to CPU.

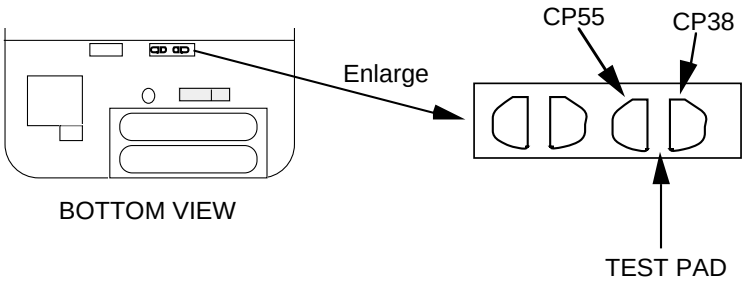
TC35093 changes TXR of X axis signal, TYD of Y axis signal in alternating by analog switch 4066 by ADCH signal from CPU to output digital data, and input analog data into AIN terminal of TC35093.

Synchronize analog data input from AIN terminal in clock signal of 1 pin, and TC35093 outputs digital data DB0~DB7 to CPU when OE and STC signal input become H.

PIN FUNCTION
CPU (HD62119A03)

Pin No.	Pin Name	Input / Output	Function
1	KO12	O	Key common signal
2	KO	O	Switching signal for Xaxis and Y axis
3	KO10	O	Strobe signal for AD converter
4	KO9	O	Standby signal for AD converter
5	KO8	O	Switching signal for TXR and TXL
6	KO7	O	Switching signal for TYU and TYD
7	KO6	O	Touch panel driving signal for TXL and TYU
8	KO5	O	Touch panel driving signal for TXR and TYD
11	KO2	O	Key common signal for TEST pad
12	KO1	O	Key common signal for ON key
13, 18 ~ 20	KI8, 3 ~ 1	I	Key in signal
21	BUFON	O	Chip select signal
22, 23	IT2, 1	I	Interrupt input
24 ~ 42	AO18 ~ 0	O	Address signal
43	OEBO	O	Output enable
44	WEBO	O	Write enable signal
45	CS10BO	O	Address signal (A19)
46	CS9BO	O	Address signal (A20)
47	CS8BO	O	Output enable signal
48	CS7BO	—	Check pad
49	CS6BO	O	Chip select signal
50	CSB5O	O	Chip select signal
51	CS4BO	O	Chip select signal
52 ~ 59	IO7 ~ 0	I/O	Data bus
60, 61	OPT3, 2	—	Check pad
62	OPT1	O	Chip select signal
63	OPT0	—	Check pad
64 ~ 71	PORT7 ~ 0	I/O	I/O port
72	VSS	I	GND
73	PI	I	Ceramic oscillation input
74	PO	O	Ceramic oscillation output
75	VLC	—	Power terminal
76	XO	O	Crystal oscillation output
77	XI	I	Crystal oscillation input
78	VCC	I	+3V source
79	VREG2	I	Voltage regulator input
80, 81	TS1, TS2	I	Test terminal
82	VSSR	I	GND
83, 84	BZZ1, 2	O	Buzzer signal output
85	VSS	I	GND
86	OCLK	O	Clock signal output
87	ITOFF	I	Power off terminal
88	TEMU	I	Test terminal
89	SW	I	Reset switch terminal
90	VDB	I	Back up power terminal
91 ~ 94	VD1 ~ 4	I	Power for dubler
95	VREG1	I	Regulator power
96	VREG4	I	Regulator power
97	VREG5	I	Regulator power
98	VDT1I	I	Voltage detector 2.3V
99	VDT2I	I	Voltage detector 2.5V
100	VREG3	I	Regulator power

DIAGNOSTIC PROGRAM



To enter the diagnostic program, proceed as follows;

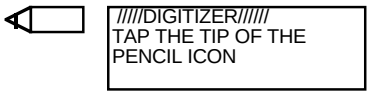
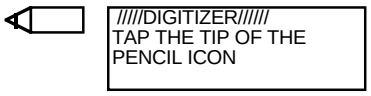
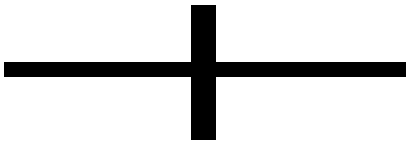
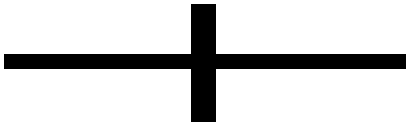
1: Open the battery cover and turn the power switch on.

2: Short the TEST pads CP38 and CP55.

STEP	OPERATION	DISPLAY	NOTE
Enter the diagnostics	Press on and then short the TEST pad.	SELF TEST PROG PRESS any TOUCH QUIT BY OFF KEY CASIO JULY 1995	
Main menu	Tap anywhere	TEST MENU 1 DISPLAY 5 I/F 2 MEMORY 6 CONTRAST 3 TIME 7 TOUCH 4 BUZZER 8 RESET	
DIsplay Check	1 DISPLAY	DISPLAY 1 DISPLAY 2 FRAME FREQ.	
	1 DISPLAY	No color, no display	
	Tap anywhere	Orange color is displayed	
	Tap anywhere	Green color is displayed	
	Tap anywhere	Blue color is displayed	
	Tap anywhere	Checkers are displayed	
	Tap anywhere	Reverse checkers are displayed	
	Tap anywhere	Frame is displayed	
	Tap anywhere	Dots at the 4 corners are displayed	
	Tap anywhere	Vertical 4 colors are displayed	
	Tap anywhere	Horizontal 4 colors are displayed	
	Tap anywhere	TEST MENU 1 DISPLAY 5 I/F 2 MEMORY 6 CONTRAST 3 TIME 7 TOUCH 4 BUZZER 8 RESET	
Memory Check	2 MEMORY	MEMORY 1 WRITE 1 5 DUMP 2 READ 1 6 CHECKSUM 3 WRITE 2 4 READ 2	
	1 WRITE 1	RAM WRITE 1	Write the test pattern 1 into RAM
		MEMORY 1 WRITE 1 5 DUMP 2 READ 1 6 CHECKSUM 3 WRITE 2 4 READ 2	After 3 sec.

STEP	OPERATION	DISPLAY	NOTE
	2 READ 1	EXECUTING !!	Read the test pattern 1 from RAM
		CMPLETE !! XXXkB	After 3 sec. NX-4000 : 128kB NX-6000 : 256kB
	Tap anywhere	MEMORY 1 WRITE 1 5 DUMP 2 READ 1 6 CHECKSUM 3 WRITE 2 4 READ 2	
	3 WRITE 2	RAM WRITE 2	Write the test pattern 2 into RAM
		MEMORY 1 WRITE 1 5 DUMP 2 READ 1 6 CHECKSUM 3 WRITE 2 4 READ 2	After 3 sec.
	4 READ 2	EXECUTING !!	Read the test pattern 2 from RAM
		CMPLETE !! XXXkB	After 3 sec. NX-4000 : 128kB NX-6000 : 256kB
	Tap anywhere	MEMORY 1 WRITE 1 5 DUMP 2 READ 1 6 CHECKSUM 3 WRITE 2 4 READ 2	
	5 DUMP	CHKSUM OS SUM XXXX	Wiring check for ROM
Memory Check	Tap anywhere	MEMORY 1 WRITE 1 5 DUMP 2 READ 1 6 CHECKSUM 3 WRITE 2 4 READ 2	
	6 CHKSUM	CHECK SUM TYPE CS5 SIZE 1024kB SUM XXXX EXOR XX	Check SUM value
	Tap anywhere	MEMORY 1 WRITE 1 5 DUMP 2 READ 1 6 CHECKSUM 3 WRITE 2 4 READ 2	
	ESC	TEST MENU 1 DISPLAY 5 I/F 2 MEMORY 6 CONTRAST 3 TIME 7 TOUCH 4 BUZZER 8 RESET	
Time Check	3 TIME	TIME 00:00:00	
	ESC	TEST MENU 1 DISPLAY 5 I/F 2 MEMORY 6 CONTRAST 3 TIME 7 TOUCH 4 BUZZER 8 RESET	

STEP	OPERATION	DISPLAY	NOTE
Buzzer Check	4 BUZZER	BZZ 1 BEEP 2 ALARM 1 3 ALARM 2	1 : Key input sound 2 : Sound alarm 1 3 : Sound alarm 2
	ESC	TEST MENU 1 DISPLAY 5 I/F 2 MEMORY 6 CONTRAST 3 TIME 7 TOUCH 4 BUZZER 8 RESET	
Interface Check	5 I/F	I/F 1 TRANS 7 2 RECEIVE N 3 ASCII 9 4 LOOP	The parameter can be changed as follows; "7" : Bit length 7 or 8 bit "N" : Parity bit N(Non), E(Even) or O(Odd) "9" : BPS 9(9600) or 4(4800)
	1 TRANS	EXECUTING !!	Send the code "H"
	2 RECEIVE	No display	Display the received charactor.
	3 ASCII	EXECUTING !!	Send the ASCII code
	4 LOOP	EXECUTING !!	Loop back check
	ESC	I/F 1 TRANS 7 2 RECEIVE N 3 ASCII 9 4 LOOP	
CONTRAST ADJ.	6 CONTRAST	TEST MENU 1 DISPLAY 5 I/F 2 MEMORY 6 CONTRAST 3 TIME 7 TOUCH 4 BUZZER 8 RESET	
	Contrast up : Tap Contrast down : Tap	CONTRAST INIT (ORG) (BLU) (GRN)	Contrast adjustment
	Color up : Tap Color down : Tap	CONTRAST INIT (ORG) (BLU) (GRN)	Adjust the color using cursor keys until the primary colors appear accurately.
	ESC	TEST MENU 1 DISPLAY 5 I/F 2 MEMORY 6 CONTRAST 3 TIME 7 TOUCH 4 BUZZER 8 RESET	

STEP	OPERATION	DISPLAY	NOTE
TOUCH PANEL ADJUSTMENT	7 TOUCH	touch TEST 1 ADJUST 2 TEST	
	1 ADJUST		Tap the tip of the pencil icon. When you do, the pencil icon you tapped disappears, and the next one appears. Tap 4 pencil icons.
	Tap 4 pencil icons.	touch TEST 1 ADJUST 2 TEST	
	2 TEST		Tap 4 pencil icons.
	Trace the horizontal black line and then vertical black line.		
	ESC	 [OK]	
	ESC	touch TEST 1 ADJUST 2 TEST	
	ESC	TEST MENU 1 DISPLAY 5 I/F 2 MEMORY 6 CONTRAST 3 TIME 7 TOUCH 4 BUZZER 8 RESET	
Reset	8 RESET	MAIN MENU	

CONTRAST ADJUSTMENT

1 : Enter the diagnostic program and tap "6 : CONTRAST".

2 : Look the LCD from heading.

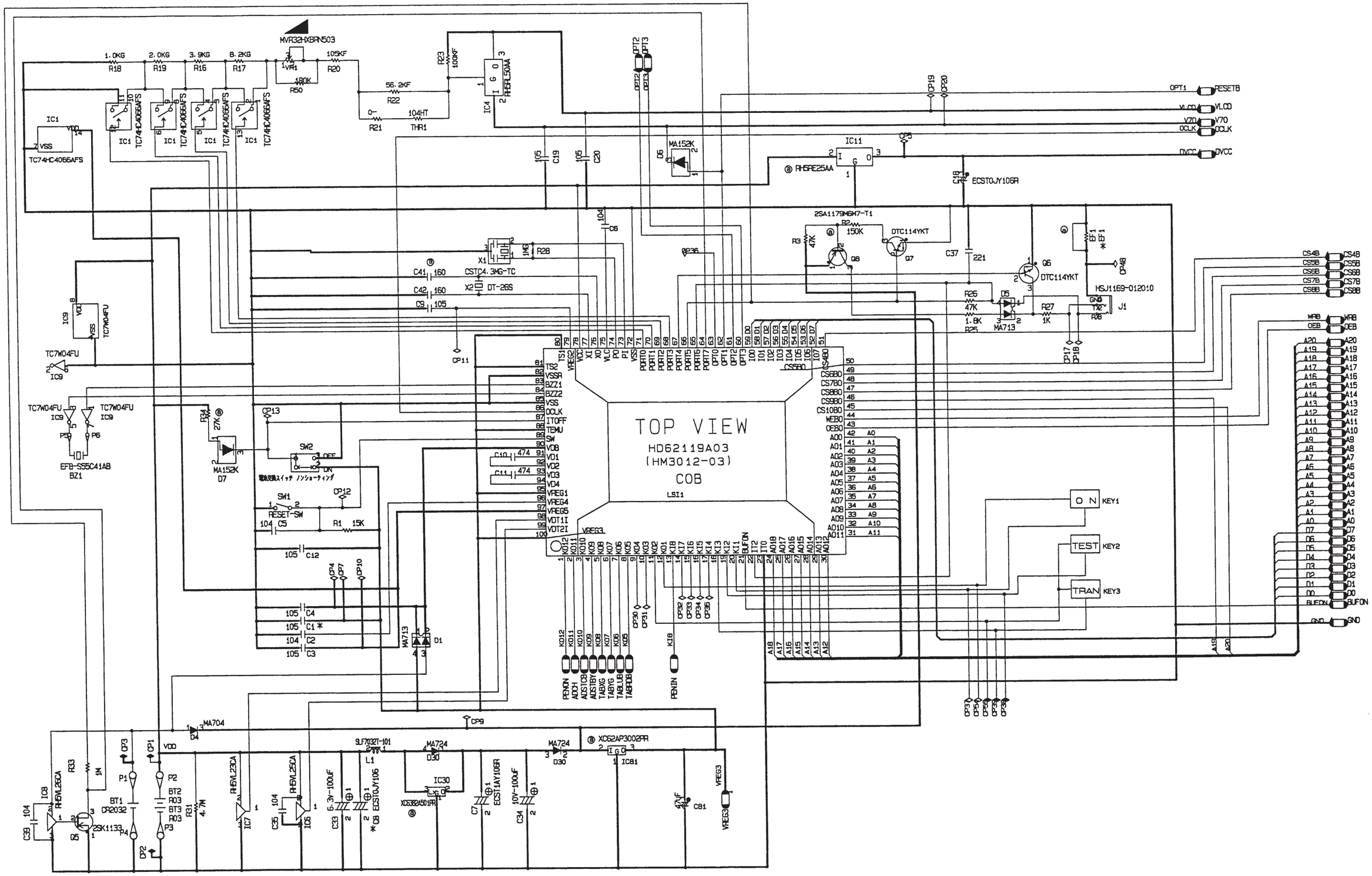
3 : Adjust the volume VR1 on the Z850-1 pcb ass'y.

4 : As to the step of hereafter, refer to "DIAGNOSTIC PROGRAM" mentioned above

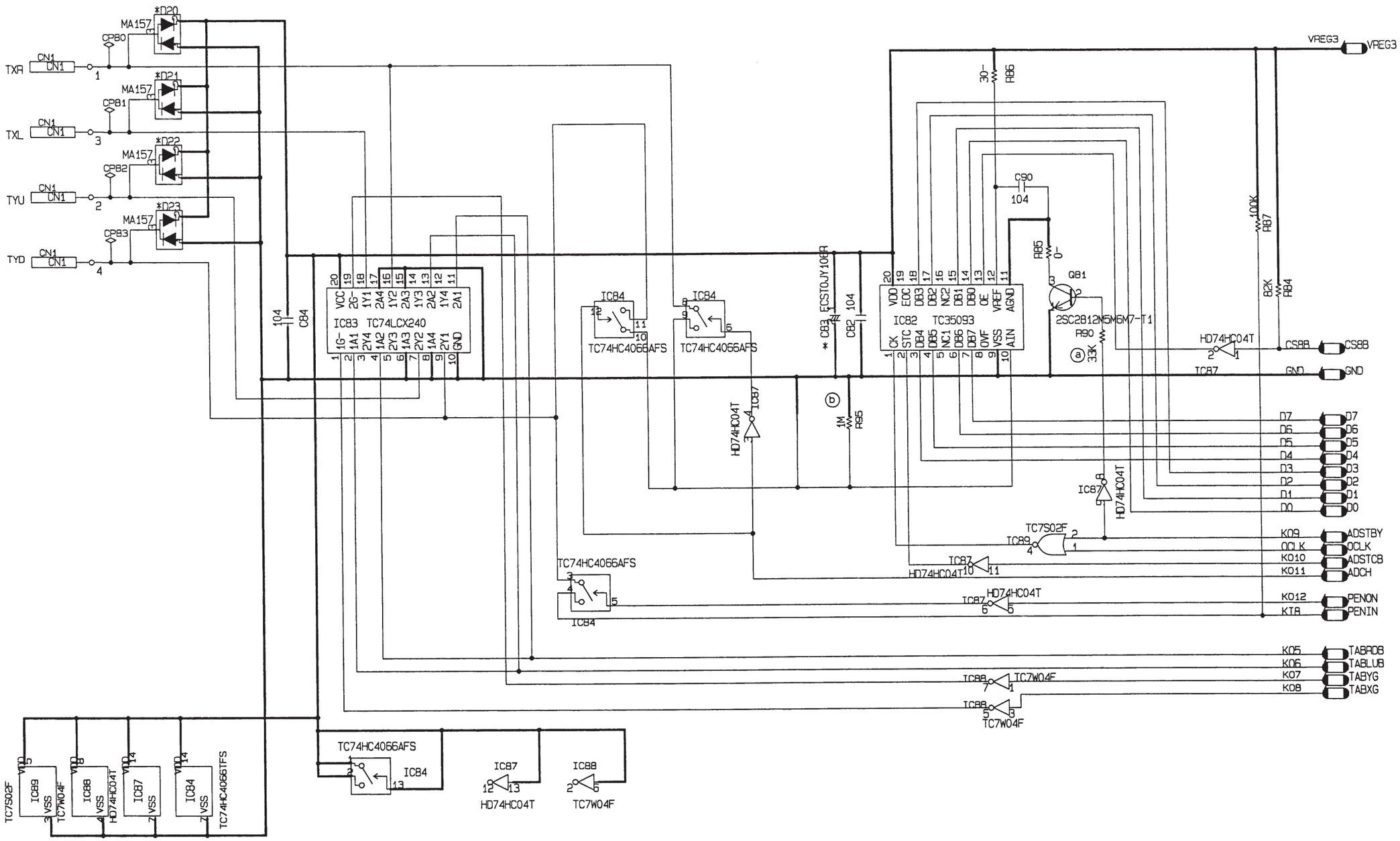
MESSAGE TABLE

Message	Meaning	Action
NOT FOUND!	Data specified in search operation does not exist in memory.	Change specification or cancel search.
MEMORY FULL!	Not more room in memory for storage of data.	Delete unnecessary data items from memory.
ALARM TIME ALREADY USED!	Attempt to set a Schedule Keeper, Reminder or a To Do alarm time that is already used for another entry.	Set a different alarm time or change the existing alarm time to another one.
ALARM TIME ALREADY PASSED!	Attempt to set a Schedule Keeper, a Reminder or a To Do alarm time for a time/date that is already passed.	Set a different alarm time (for a future time/date).
SECRET DATA!	Alarm for a secret memory area data item is sounding.	Enter the secret memory area to view details of the alarm.
PASSWORD MISMATCH!	Attempt to enter the secret memory area using a password that does not match the one preset for the secret area.	Use the correct password.
TRANSMIT ERROR!	Error during data communications.	Cancel the data communications operation and try again.
STOPPED!	Data communication has been interrupted.	Stop the data communication procedure and try again.
NOTICE! CONSULT THE OWNER'S MANUAL!	• This message appears when this is the first time you ever turned on the NX Unit. • Data corrupted by strong impact, electrostatic charge, etc.	Perform the ALL RESET operation (“Resetting the NX Unit's Memory” in Character 1). See “About the “NOTICE!” message” in Chapter 1.

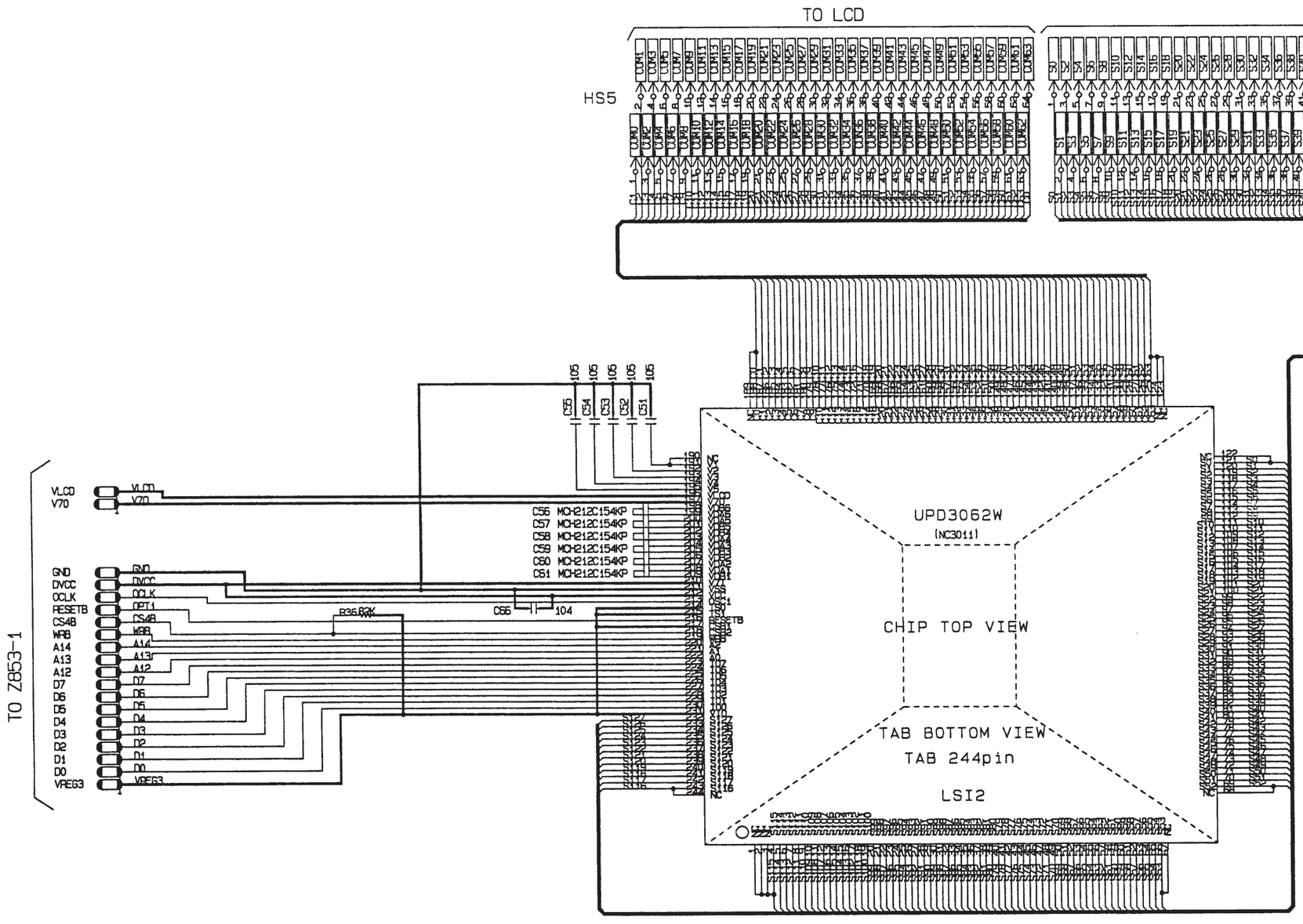
SCHEMATIC DIAGRAMS
Z850-1 PCB ASS'Y (MAIN BLOCK)

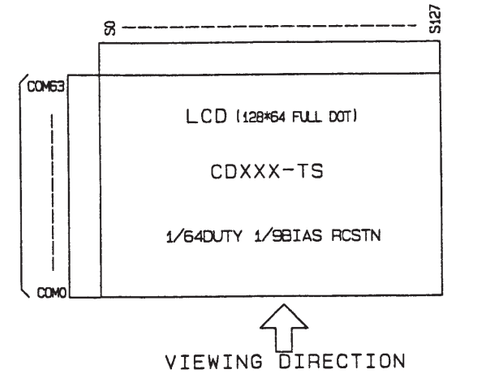


Z850-1 PCB ASS'Y (A/D BLOCK)



Z850-1 PCB ASS'Y (DISPLAY BLOCK)

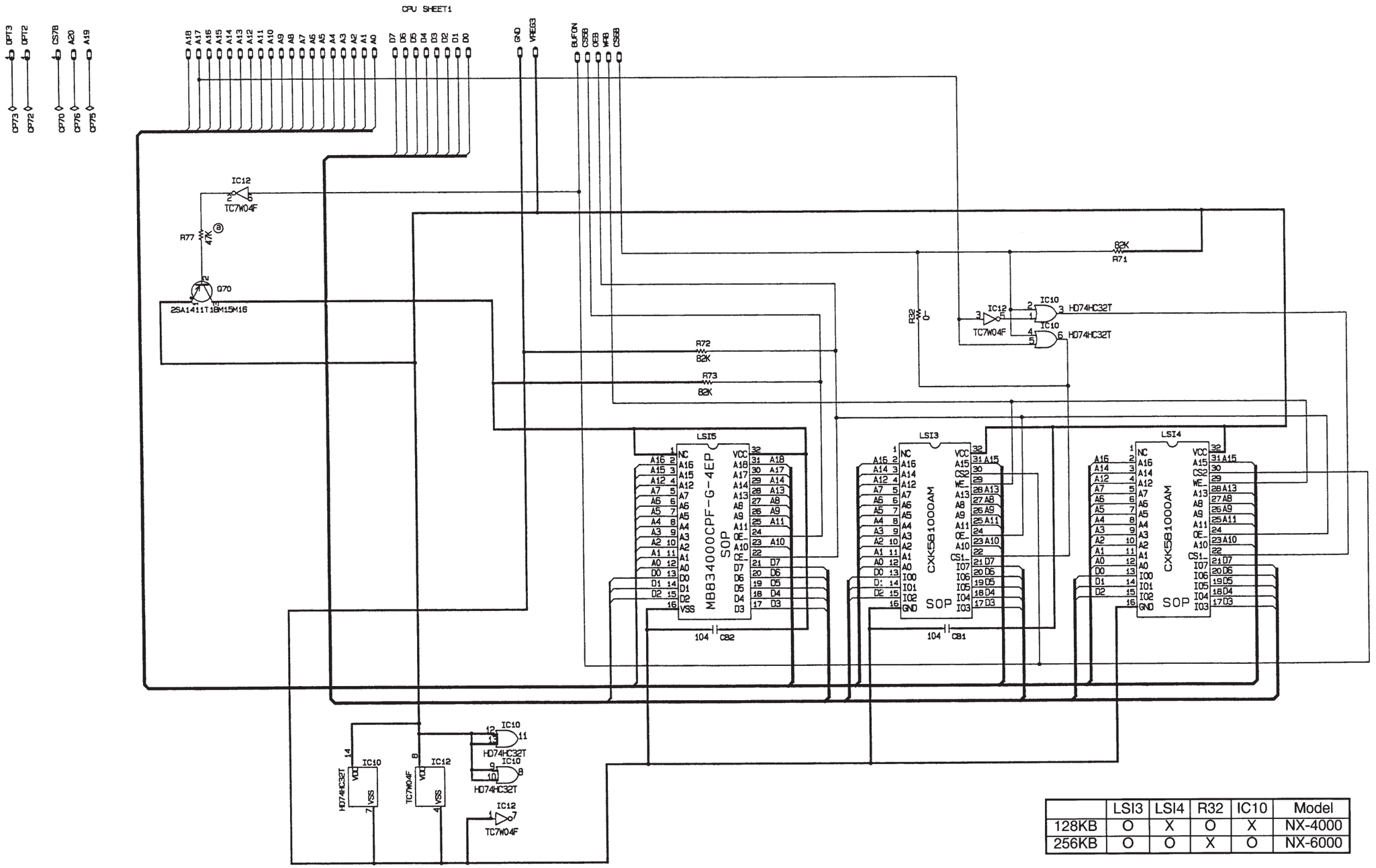




LCD–TAB wiring table

LCD	COM0~COM62	COM63	S0~S127
TAB(NC3011)	C1~C63	C0	S0~S127

Z850-1 PCB ASS'Y (MEMORY BLOCK)



	LSI3	LSI4	R32	IC10	Model
128KB	O	X	O	X	NX-4000
256KB	O	O	X	O	NX-6000

PARTS LIST

N	Item	Code No.	Parts Name	Specification	Quantity				M	FOB Japan N.R.Yen Unit Price	R
					AE	EE	AEU	EEU			
		Z850-1 PCB ASS'Y									
	28	6511 0770	Battery spring K-L538AA	C311380-1	1	1	1	1	20		X
	30	6409 9960	Battery spring A-L525AM	C413299-1	1	1	1	1	20		X
N	34	6415 8590	Battery spring A-Z850AH	C440621-1	1	1	1	1	20		X
N	35	6415 8600	Battery spring C-Z850AH	C440622-1	1	1	1	1	20		X
	CN1	3501 8547	Connector	IL402-4S-E1000	1	1	1	1	10		X
	D1,5	2390 0364	Schottky diode	MA713-TX	2	2	2	2	10		C
	D30	2390 1561	Chip diode	MA724-(TX)	1	1	1	1	10		C
	D4	2390 0875	Chip diode	MA704-(TX)	1	1	1	1	20		C
	D6,7	2390 1442	Chip diode	MA152K-(TX)	2	2	2	2	20		C
N	IC1,84	2114 4683	CMOS-IC	TC74HC4066AFS(EL)	2	2	2	2	5		B
N	IC10	2105 5012	CMOS-IC	HD74HC32T-EL	0	1	0	1	10		B
N	IC11	2105 4704	CMOS-IC	RH5RE25AA-T1	1	1	1	1	5		B
N	IC30	2105 5096	CMOS-IC	XC6382A501PR	1	1	1	1	1		B
N	IC4	2105 2737	CMOS-IC	RH5RL50AA-T1	1	1	1	1	10		B
N	IC6	2105 4228	CMOS-IC	RH5VL25CA-T1	1	1	1	1	10		B
N	IC7	2105 4914	CMOS-IC	RH5VL23CA-T1	1	1	1	1	10		B
N	IC8	2105 4144	CMOS-IC	RH5VL26CA-T1	1	1	1	1	10		B
N	IC81	2105 5040	CMOS-IC	XC62AP3002PR	1	1	1	1	5		B
N	IC82	2105 5089	CMOS-IC	TC35093FS(EL)	1	1	1	1	1		B
N	IC83	2105 5033	CMOS-IC	TC74LCX240F(EL)	1	1	1	1	1		B
N	IC87	2105 5005	CMOS-IC	HD74HC04T-EL	1	1	1	1	10		B
N	IC88,9,12	2114 4676	CMOS-IC	TC7W04FU-TE12L	3	3	3	3	5		B
	IC89	2105 1827	CMOS-IC	TC7S02F-TE85R	1	1	1	1	10		B
	J1	3501 6538	Mini jack	HSJ1169-012010	1	1	1	1	5		C
	LSI2	6413 5320	COF3011-F1 sub ass'y	A340214*1	1	1	1	1	1		A
N	LSI3,4	2012 1659	LSI	TC551001BFL-10V(S)	1	2	1	2	1		A
N	LSI5	2012 2380	LSI	uPD27C4001GW-73202	1	1	1	1	1		A
	Q5	2254 0287	FET	2SK1133-T1B	1	1	1	1	20		B
	Q6,7	2259 0959	Chip digital transistor	DTC114YKT-146	2	2	2	2	20		B
	Q70	2250 0546	Chip transistor	2SA1411T1B M15,M16	1	1	1	1	20		B
	Q8	2250 0826	Chip transistor	2SA1179M6,M7-TB	1	1	1	1	20		B
	Q81	2221 2451	Chip transistor	2SC2812L5,L6,L7-TB	1	1	1	1	20		B
	THR1	2755 0147	Thermistor	104HT	1	1	1	1	5		C
N	VR1	2765 1869	Chip volume	MVR32HXBRN503	1	1	1	1	20		C
	X1	2590 1967	Ceramic oscillator	CSTC4.30MG-TC	1	1	1	1	1		C
	X2	7110 0642	Crystal	DT-26S	1	1	1	1	10		C
N	L1	3841 1799	Coil	636CY-151M-P3	1	1	1	1	5		C
	The following elecrical parts will be not supplied from CASIO.										
	C2,5,6, C35,39, C66,82, C84,90, CB1,CB2		Chip capacitor	MCH183F104ZK	11	11	11	11			
	C3,4,9, C12,19, C20,51, C52,53, C54,55		Chip capacitor	MCH312F105ZP	11	11	11	11			
	C7		Chip tantalum capacitor	ECST1AY106R	1	1	1	1			

Notes: N – New parts
M – Minimum order/supply quantity
R – Rank
Q – Quantity used per unit

R – A : Essential
B : Stock recommended
C : Others
X : No stock recommended

AEU : NX-4000 (U.S.A)
AE : NX-4000 (Others)
EEU : NX-6000 (U.S.A)
EE : NX-6000 (Others)

N	Item	Code No.	Parts Name	Specification	Quantity				M	FOB Japan N.R.Yen Unit Price	R
					AE	EE	AEU	EEU			
	C10,11		Chip capacitor	MCH212F474ZP	2	2	2	2			
	C18		Tantalum capacitor	ECST0JY106R	1	1	1	1			
	C33		Electrolytic capacitor	UMR0J101MDA1TP	1	1	1	1			
	C34		Electrolytic capacitor	ECEA1AKS101I	1	1	1	1			
	C37		Chip capacitor	MCH185A221JK	1	1	1	1			
	C41,42		Chip capacitor	MCH185A160JK	2	2	2	2			
	C56,57, C58,59, C60,61		Chip capacitor	MCH212C154KP	6	6	6	6			
	C81		Electrolytic capacitor	ECE-A0JKS470I	1	1	1	1			
	R1		Chip resistor	MCR03EZHJ153	1	1	1	1			
	R2		Chip resistor	MCR03EZHJ154	1	1	1	1			
	R3,27,77		Chip resistor	MCR03EZHJ473	3	3	3	3			
	R16		Chip resistor	MCR03EZHG392	1	1	1	1			
	R17		Chip resistor	MCR03EZHG822	1	1	1	1			
	R18		Chip resistor	MCR03EZHG102	1	1	1	1			
	R19		Chip resistor	MCR03EZHG202	1	1	1	1			
	R20		Chip resistor	MCR03EZHF1053	1	1	1	1			
	R22		Chip resistor	MCR03EZHF5622	1	1	1	1			
	R23		Chip resistor	MCR03EZHF1003	1	1	1	1			
	R25		Chip resistor	MCR03EZHJ182	1	1	1	1			
	R27		Chip resistor	MCR03EZHJ102	1	1	1	1			
	R28		Chip resistor	MCR03EZHG105	1	1	1	1			
	R31		Chip resistor	MCR03EZHJ475	1	1	1	1			
	R33,95		Chip resistor	MCR03EZHJ105	2	2	2	2			
	R34		Chip resistor	MCR03EZHJ273	1	1	1	1			
	R36,71, R72,73, R84		Chip resistor	MCR03EZHJ823	5	5	5	5			
	R50		Chip resistor	MCR03EZHJ184	1	1	1	1			
	R85,21, (32)		Chip resistor	MCR03EZHJ000	3	2	3	2			
	R86		Chip resistor	MCR03EZHJ300	1	1	1	1			
	R87		Chip resistor	MCR03EZHJ104	1	1	1	1			
	R90		Chip resistor	MCR03EZHJ333	1	1	1	1			
		COMPONENT									
N	1	6416 5860	Label Z850	C440972-1	1	1	1	1	20		X
N	2	6415 9620	Hard cover Z853AE	C140155-6	1	0	1	0	1		C
N	2	6416 0990	Hard cover Z853EE	C140155-8	0	1	0	1	1		C
N	3	6415 8850	Blind label Z852AE	C440636-2	0	1	0	1	20		X
N	3	6415 9640	Blind label Z853AE	C440636-6	1	0	1	0	20		X
N	4	6415 8630	Plate M-Z850AH	C440634-1	1	1	1	1	20		X
N	5	6415 9370	Upper case Z853AE	C140152-6	1	0	1	0	1		C
N	5	6416 0920	Upper case Z853EE	C140152-8	0	1	0	1	1		C
N	6	6415 8680	Battery spring B-Z850AH	C440639-1	1	1	1	1	20		C
N	7	6415 8840	Key top Z852AE	C340435-2	1	0	1	0	20		C
N	7	6416 5670	Key top Z853EE	C340435-6	0	1	0	1	20		C
N	8	6415 8470	Middle case Z850AH	C240260-1	1	1	1	1	10		C
N	9	6415 8660	Tape C-Z850AH	C440637-1	2	2	2	2	20		X
N	10	5610 8860	Heat seal C-Z850AH	C340413-1	1	1	1	1	1		B
N	11	6415 8580	Magnet Z850AH	C440620-1	1	1	1	1	1		C
N	12	6415 8620	Cushion M-Z850AH	C440633-1	1	1	1	1	20		X

Notes: N – New parts
M – Minimum order/supply quantity
R – Rank
Q – Quantity used per unit

R – A : Essential
B : Stock recommended
C : Others
X : No stock recommended

AEU : NX-4000 (U.S.A)
AE : NX-4000 (Others)
EEU : NX-6000 (U.S.A)
EE : NX-6000 (Others)

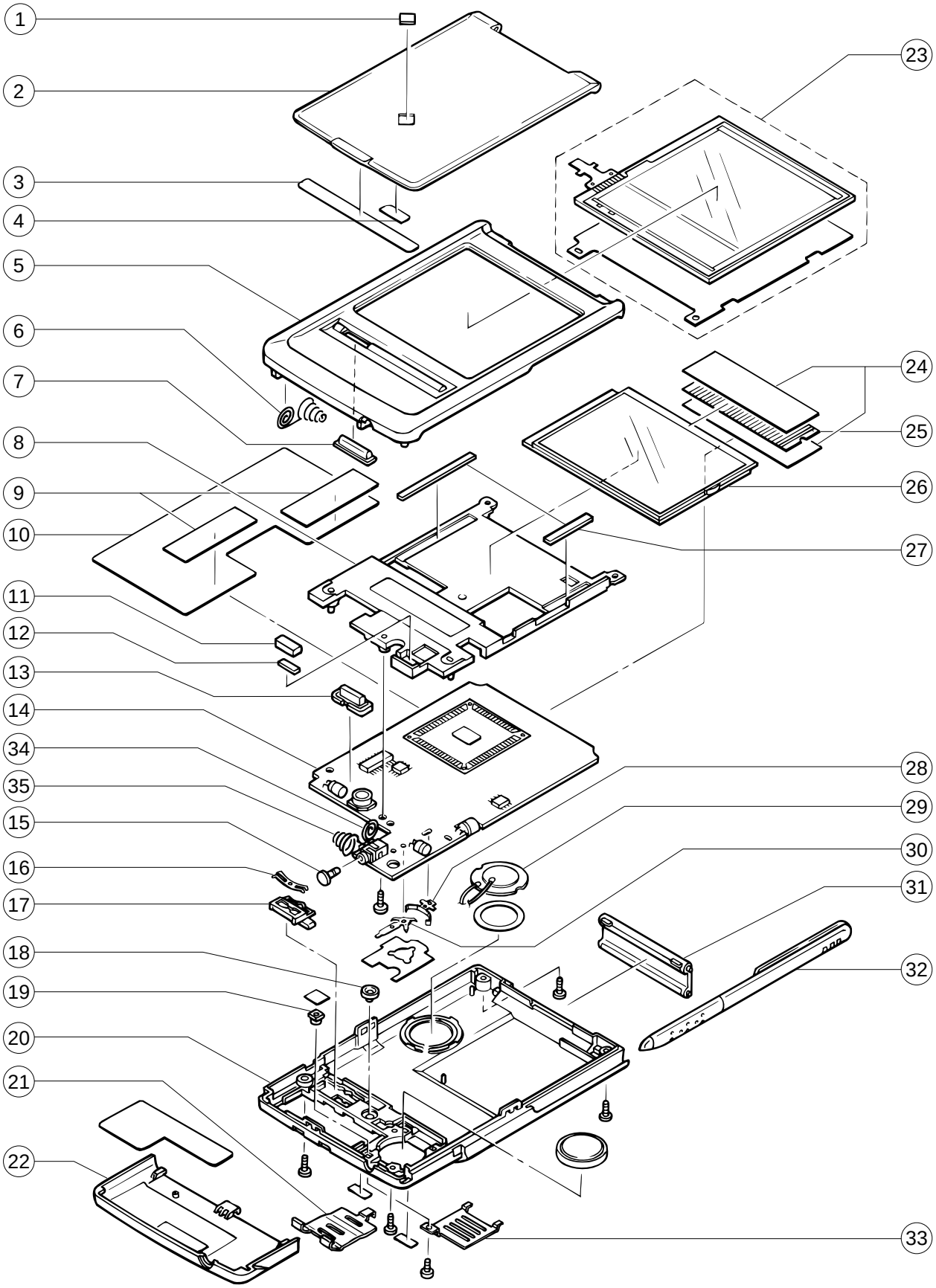
N	Item	Code No.	Parts Name	Specification	Quantity				M	FOB Japan N.R.Yen Unit Price	R
					AE	EE	AEU	EEU			
N	13	6415 8490	Inner rubber Z850AH	C340428-1	1	1	1	1	20		C
N	14	6415 9560	Z850-1 PCB ass'y	C140167E*5 C	1	0	1	0	1		B
N	14	6416 1000	Z850-1 PCB ass'y	C140167E*6 C	0	1	0	1	1		B
N	15	6390 0432	Cap V332	A310765B-1	1	1	1	1	20		X
N	16	6410 0150	Contact spring L525AM	C412167-2	1	1	1	1	20		X
N	17	6415 8520	Battery switch Z850AH	C340433-1	1	1	1	1	20		C
N	18	6511 4881	Rubber key L538AA	A311024A-2	1	1	1	1	20		C
	19	6408 3740	Nut L72	A411563-3	1	1	1	1	20		X
N	20	6415 9610	Lower case Z853AE	C140153-4	1	0	0	0	5		C
N	20	6416 0980	Lower case Z854EE	C140153-6	0	1	0	0	1		C
N	20	6416 3510	Lower case Z855AEU	C140153-8	0	0	1	0	5		C
N	20	6416 3520	Lower case Z853EEU	C140153-9	0	0	0	1	5		C
N	21	6415 8610	Battery plate M-Z850AH	C440623-1	1	1	1	1	20		C
N	22	6415 9380	Battery cover Z853AE	C340427-4	1	0	1	0	5		C
N	22	6416 0940	Battery cover Z854EE	C340427-5	0	1	0	1	5		C
N	23	6416 0900	Touch panel ass'y	C340445*3 C	0	1	0	1	1		B
N	23	6415 9320	Touch panel ass'y	C340445*2 C	1	0	1	0	1		B
N	24	6415 8560	Tape S-Z850AH	C440618-1	2	2	2	2	20		X
N	25	5610 8850	Heat seal S-Z850AH	C340412-1	1	1	1	1	10		B
N	26	3335 5943	LCD	CD1030-TS	1	1	1	1	1		B
N	27	6415 8690	Cushion L-Z850AH	C440640-1	2	2	2	2	20		X
N	29	3122 2380	Buzzer	EFB-S55C41A8	1	1	1	1	10		X
N	31	6415 8830	Hinge Z852AE	C340431-2	0	1	0	1	5		C
N	31	6415 9630	Hinge Z853AE	C340431-6	1	0	1	0	5		C
N	32	6415 8460	Pen Z850AH	C240259-1	1	1	1	1	10		C
N	33	6415 8670	Battery plate B-Z850AH	C440638-1	1	1	1	1	20		X

Notes: N – New parts
M – Minimum order/supply quantity
R – Rank
Q – Quantity used per unit

R – A : Essential
B : Stock recommended
C : Others
X : No stock recommended

AEU : NX-4000 (U.S.A)
AE : NX-4000 (Others)
EEU : NX-6000 (U.S.A)
EE : NX-6000 (Others)

EXPLODED VIEW



CASIO COMPUTER CO.,LTD.
Service Division

8-11-10, Nishi-Shinjuku
Shinjuku-ku, Tokyo 160, Japan
Telephone: 03-3347-4926